

MODELS: Stinson SR-8A, -8B (Army UC-81), -8C (Army UC-81L)

T.C. NUMBER: ATC 608

I - SPECIFICATIONS PERTINENT TO ALL MODELS

Placard speeds	Level flight or climb - 164 mph True Ind. Glide or dive - 222 mph True. Inc. Flaps extended - 122 mph True Ind.
Oil capacity	4.5 gallons
Baggage	100 lbs. (50 lbs. under rear seats (+52) and 50 lbs. in compartment aft of cabin (+73) (See NOTE 1) (includes anchor and rope 25 lbs. in seaplane type
C.G. limits	Landplane (+18.5) and (+28) Seaplane (+18.75) and (+27)
Specification basis	Approved Type Certificate No. 608
Serial numbers	9702 and up manufactured prior to 9/30/39 eligible and all AAF numbers of UC-81 and UC-81L. Approval expired as of 9/30/39.

EQUIPMENT:

(Datum is leading edge of wing outboard curved portion) (*Means net increase)

Class I:

Landplane:	
101. Engine ring cowl	24 lbs.
102. Deleted (See Item 322)	
103. Starter (Eclipse E-80)	20 lbs.
104. Heater and ventilator	
105. Leather upholstery	
106. 7.50-10 wheels (Goodyear 10HBM) with 8.50-10 4-ply tires (wheels must be placarded for this size tire)	
107. 10.5 inch streamline tail wheel	
108. Battery (Exide 6TS-13-1) (aft of cabin back wall)	38 lbs.
109. Hammock type rear seats	
110. Cleveland Pneumatic air and oil shock strut (Stinson Drawing L-524)	(+12)
111. (See Class III)	

Seaplane: (Items 101, 103, 104, 105, 108, 109, and 111 PLUS
 151. Edo 39-4000 floats with water rudder
 152. Seaplane fin (Stinson Drawing C-1801)
 (Note: This fin differs from that
 used on SR-8D or SR-8E)

Class II:

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| 200. | Miscellaneous items as noted in approved weight and balance report | |
| 201. | Multipurpose type (designated by pertinent model suffixed by letter "M"). This type may have auxiliary door aft of main door on right side, large door frame for main and auxiliary doors, removable back on co-pilot's chair, stretcher door in back wall, ski type fuselage, ambulance litter and installation, metal lined cabin. | |
| 202. | (a) 49 gallon reserve fuel tank under rear seat (baggage under rear seat - none) | 50 lbs.* |
| | (b) 8 gallon oil tank | |
| 203. | Propellers | |
| | (a) Lycoming-Smith P-220 hub, Curtiss B300SO blades; low pitch setting 10.25 degrees (SR-8B only) | 11 lbs.* |
| | (b) Lycoming-Smith P-220 hub, Curtiss 320SO blades; low pitch setting 10.25 degrees (SR-8B and SR-8C only) | 15 lbs.* |
| | (c) Lycoming-Smith P-220 hub, Lycoming S0200806 blades; low pitch setting 10.25 degrees (SR-8B and SR-8C only) | 9 lbs.* |
| | (d) Lycoming Smith P-220 hub, Lycoming S0220806 blades; low pitch setting 10.25 degrees (SR-8B and SR-8C only) | 11 lbs.* |
| | (e) Lycoming-Smith P-221 hub, Curtiss B350S1 blades; low pitch setting 10 degrees (SR-8B only) | 28 lbs.* |

Class III:

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| 111. | Fire extinguisher (Pyrene Pressure) | 11 lbs. | (+2) |
| 301. | Special instruments (maximum) | 37 lbs. | (-9) |
| 302. | Flares: | | |
| | (a) Three 1-1/2 minute | 17 lbs. | (+96) |
| | (b) Two Wiley 3-minute | 38 lbs. | (+88) |
| 303. | Fire extinguisher (Lux Press.) | 20 lbs. | (+2) |
| 304. | Releasable cabin door | Neglect weight | (+15) |
| 305. | Puncture proof tubes | 6 lbs.* | (+3) |
| 306. | Landing lights (Grimes) and wiring | 14 lbs. | (+14) |
| 307. | Special polish on wings | 10 lbs.* | (+36) |
| 308. | Camera hole in cabin floor | 4 lbs. | (+33) |
| 309. | Generator: | | |
| | (a) 25 amp. type | 30 lbs. | (-36) |
| | (b) 15 amp. type | 25 lbs. | (-36) |
| 310. | Bonding | 4 lbs. | (+80) |
| 311. | Shielding: | | |
| | (a) Packard | 9 lbs. | (-43) |
| | (b) Breeze | 13 lbs. | (-43) |
| 312. | Parachute | | |
| | (a) Pilot chair 1 or 2 at 15 lbs. each | | (+18) |
| | (b) Passenger chair 1 or 2 at 20 lbs. each | | (+52) |
| 313. | (a) Radio receiver (RCA AVR-7 series) (rear wall of cabin) | 24 lbs. | (+66) |
| | (b) Radio transmitter (RCA AVT-7 series) (transmitter on cabin back wall and power unit at instrument panel) | 30 lbs. | (+31) |
| | (c) Radio compass (RCA AVR8) installation | 60 lbs. | (+54) |
| | (d) Antenna | 3 lbs. | |
| 314. | (a) 50 gallon fuel capacity (2 tanks in wings at 25 gallons each) (standard for SR-8A) | 28 lbs. | (+34) |
| | (b) 70 gallon fuel capacity (2 tanks in wings at 35 gallons each) (standard for SR-8B and SR-8C) | 40 lbs. | (+34) |
| | (c) 82 gallon fuel capacity (2 tanks | | |

	in wings at 41 gallons each)	45 lbs.	(+34)
315.	Ski type fuselage F-3274	7 lbs.*	(+12)
316.	Ski type landing gear	14 lbs.*	(+6)
317.	Lifting hooks, fog and mooring lights	7 lbs.*	
318.	Spring and oil struts (Stinson Drawing 1551) (This item required for conversion to SR-8D or SR-8E)	19 lbs.*	(+12)
319.	Reinforcement for lower lift strut yokes (one on each side of fuselage) per either of Stinson Drawing numbers Z-2276, Z-2315, Z-2328, Z-2336 or F-3440	4 lbs.*	
320.	Wing lift fitting alteration in accordance with Stinson Drawing Z-3515		
321.	Skis (use actual weights) (a) Alaska Airmotive 3750-S (b) Wien Alaska W-3		
322.	Wheel streamlines (formerly Item 102)	24 lbs.	

NOTE 1. Four-place. Models SR-8C and 8B (landplane or seaplane) are approved also as four-place type with two safety belts (instead of three) on rear seat. Baggage in compartment aft of cabin may be increased from 50 lbs. to 100 lbs. (total 150 lbs.) (+62).

NOTE 2. Eligible for export as follows subject to inspection for equipment specified in Chapter XII of Inspection Handbook (11/14/38):
(a) Canada
- Landplane
- Seaplane - Maximum standard weight 4000 lbs.
- Skiplane - Not eligible. However, structure complies with Canadian requirements for ski installation when items 315 and 316 are installed.
(b) All other countries except Australia.

NOTE 3. See NOTE 3, Aircraft Specification No. 609, regarding conversion to SR-8D or SR-8E.

NOTE 4. Airspeed indicator with maximum dial reading of 200 mph must have scale extended to 222 mph in accordance with Service Station Bulletin 157 (Owners Bulletin 158).

II - MODEL SR-8A, DESIGNATION 4 PCLM

Engine	Lycoming R-680-B4
Placard limits	Maximum, except take-off -- in.Hg., 2100 rpm (225 hp) Take-off (one minute) -- in.Hg., 2100 rpm (225 hp)
Propeller	Hamilton Standard adjustable metal (maximum permissible diameter 8 ft. 6 in.) 78 lbs.
Fuel capacity	50 gallons (Item 314a)
No. passengers	3 (front +15, rear +52)
Standard weight	3375 lbs.

III - MODEL SR-8B (Army UC-81) DESIGNATION 5 PCL-SM (See NOTE 1)

(Same as SR-8A except engine, propeller and fuel capacity)

Engine	Lycoming R-680-B6 or D6
Placard limits	Maximum, except take-off -- in.Hg., 2100 rpm (225 hp) Take-off (one minute) -- in.Hg., 2300 rpm (245 hp)
Propeller	Hamilton Standard hub 2B20; blades 6109A-6 to 6109A-10, inclusive, or blades 6135A-6 to 6135A-10, inclusive Diameter 8' 6-1/8" maximum, 8' 7/8" minimum Low pitch setting 11.5 degrees, 103 lbs.
Fuel capacity	70 gallons (Item 314b)
No. passengers	4
Weights	Empty - Use actual (seaplane approximately 334 lbs. increase over landplane) Standard - (landplane) 3750 lbs.; (seaplane) 4000 lbs.

IV - MODEL SR-8C (ARMY UC-81L), DESIGNATION 5 PCL-SM (See NOTE 1)

(Same as SR-8B except engine)

Engine	Lycoming R-680-B5 or D6
Placard limits	Maximum, except take-off -- in.Hg., 2000 rpm (240 hp)

	Take-off (one minute)
	-- in.Hg., 2300 rpm (260 hp)
Propeller	Hamilton Standard hub 2B20; blades 6109A-6 to 6109A-10, inclusive; or blades 6135A-6 to 6135A-10, inclusive.
	Diameter 8'6-1/8" maximum, 8'7/8" minimum.
	Low pitch setting 11.5 degrees, 103 lbs.
Fuel capacity	70 gallons (Item 314b)
No. passengers	4
Weights	Empty - Use actual (seaplane approximately 334 lbs. increase over landplane)
	Standard - (landplane) 3750 lbs.; (seaplane) 4000 lbs.